SEQUENCE LISTING

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<120> METHODS AND COMPOUNDS FOR MODULATING NUCLEAR RECEPTOR COACTIVATOR BINDING

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<150> US 60/079,956
<151> 1998-03-30

<160> 51

<170> PatentIn Ver. 2.0

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Leu Xaa Xaa Leu Leu
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Ile Leu Xaa Xaa Leu Leu
1 5

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Phe Xaa Xaa Leu Trp
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Phe Xaa Xaa Ala Leu

1 5

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Ala Glu Gly His Ser Arg Leu His Asp Ser Lys Gly Gln Thr Lys Leu
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Leu Gln Leu Leu Thr Thr Lys Ser Glu Gln Met Glu Pro Ser Pro Leu
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Ala Ser

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<223> Leu --> Ala

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<223> LeuLeu --> AlaAla

<220>
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<222> (17)..(18)
<223> HisArg --> AlaAla

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<223> Ile --> Phe

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<223> leu --> Phe

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1 5 10 15

His Arg Leu Leu Gln Asp Ser Ser Ser Pro Val Asp Leu Ala Lys Leu
20 25 30

Thr Ala

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Glu Pro Ala Ser Pro Lys Lys Lys Glu Asn Ala Leu Leu Arg Tyr Leu
1 5 10 15

Leu Asp Lys Asp Asp Thr Lys Asp Ile Gly Leu Pro Glu Ile Thr
20 25 30

<210> 8
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<213> Homo sapiens

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Ala Asp Gly Gln Ser Arg Leu His Asp Ser Lys Gly Gln Thr Lys Leu
1 5 10 15

Leu Gln Leu Leu Thr Thr Lys Ser Glu Gln Met Glu Pro Ser Pro Leu
20 25 30

Ala Ser

<210> 9
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<213> Homo sapiens

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Ser Gly Ser Thr His Gly Thr Ser Leu Lys Glu Lys His Lys Ile Leu
1 5 10 15

His Arg Leu Leu Gln Asp Ser Ser Ser Pro Val Asp Leu Ala Lys Leu
20 25 30

Thr Ala

<210> 10
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Glu Pro Val Ser Pro Lys Lys Lys Glu Asn Ala Leu Leu Arg Tyr Leu
1 5 10 15

Leu Asp Lys Asp Asp Thr Lys Asp Ile Gly Leu Pro Glu Ile Thr
20 25 30

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1 5 10 15

Leu Gln Leu Leu Thr Thr Lys Ser Glu Gln Met Glu Pro Ser Pro Leu
20 25 30

Pro Ser

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1 5 10 15

His Arg Leu Leu Gln Asp Ser Ser Ser Pro Val Asp Leu Ala Lys Leu
20 25 30

Thr Ala

<210> 13
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<213> Homo sapiens

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Glu Pro Ala Ser Pro Lys Lys Lys Glu Asn Ala Leu Leu Arg Tyr Leu
1 5 10 15

Leu Asp Lys Asp Asp Thr Lys Asp Ile Gly Leu Pro Ser Ile Thr
20 25 30

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<213> Homo sapiens

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Ala Glu Asn Gln Arg Gly Pro Leu Glu Ser Lys Gly His Lys Lys Leu
1 5 10 15

Leu Gln Leu Leu Thr Cys Ser Ser Glu Asp Arg Gly His Ser Ser Leu
20 25 30

Thr Asn

<210> 15
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<213> Homo sapiens

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Thr Ser Asn Met His Gly Ser Leu Leu Gln Glu Lys His Arg Ile Leu
1 5 10 15

His Lys Leu Leu Gln Asn Gly Asn Ser Pro Ala Glu Val Ala Lys Ile
20 25 30

Thr Ala

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Glu Gln Leu Ser Pro Lys Lys Lys Glu Asn Asn Ala Leu Leu Arg Tyr
1 5 10 15

Leu Leu Asp Arg Asp Asp Pro Ser Asp Val Leu Ala Lys Lys Leu Gln
20 25 30

<210> 17
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<213> Homo sapiens

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Ala Glu Asn Gln Arg Gly Pro Leu Glu Ser Lys Gly His Lys Lys Leu
1 5 10 15

Leu Gln Leu Leu Thr Cys Ser Ser Asp Asp Arg Gly His Ser Ser Leu
20 25 30

Thr Asn

<210> 18
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<213> Homo sapiens

<400> 18
Thr Ser Asn Met His Gly Ser Leu Leu Gln Glu Lys His Arg Ile Leu
1 5 10 15

His Lys Leu Leu Gln Asn Gly Asn Ser Pro Ala Glu Val Ala Lys Ile
20 25 30

Thr Ala

<210> 19
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<213> Homo sapiens

<400> 19
Glu Gln Leu Ser Pro Lys Lys Lys Glu Asn Asn Ala Leu Leu Arg Tyr
1 5 10 15

Leu Leu Asp Arg Asp Asp Pro Ser Asp Ala Leu Ser Lys Glu Leu Gln
20 25 30

<210> 20
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<213> Homo sapiens

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Ser Glu Thr Pro Arg Gly Pro Leu Glu Ser Lys Gly His Lys Lys Leu
1 5 10 15

Leu Gln Leu Leu Thr Cys Ser Ser Glu Asp Arg Gly His Ser Ser Leu
20 25 30

Thr Asn

<210> 21
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<213> Homo sapiens

<400> 21
Thr Ser Asn Val His Gly Ser Leu Leu Gln Glu Lys His Arg Ile Leu
1 5 10 15

His Lys Leu Leu Gln Asn Gly Asn Ser Pro Ala Glu Val Ala Lys Ile
20 25 30

Thr Ala

<210> 22
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<213> Homo sapiens

<400> 22
Glu Gln Leu Ser Pro Lys Lys Lys Glu Asn Asn Ala Leu Leu Arg Tyr
1 5 10 15

Leu Leu Asp Arg Asp Asp Pro Ser Asp Ala Leu Ser Lys Glu Leu Gln
20 25 30

<210> 23
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<213> Homo sapiens

<400> 23
Ser Glu Gly Asp Ser Lys Tyr Ser Gln Thr Ser His Lys Leu Val Gln
1 5 10 15

Leu Leu Thr Thr Thr Ala Glu Gln Gln Leu Arg His Ala Asp Ile Asp
20 25 30

<210> 24
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<213> Homo sapiens

<400> 24
Thr Cys Pro Ser Ser His Ser Ser Leu Thr Glu Arg His Lys Ile Leu
1 5 10 15

His Arg Leu Leu Gln Glu Gly Ser Pro Ser Asp Ile Thr Thr Leu Ser
20 25 30

Val

<210> 25
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<400> 25
Glu Leu Asp Ala Ala Lys Lys Lys Glu Ser Lys Asp His Gln Leu Leu
1 5 10 15

Arg Tyr Leu Leu Asp Lys Asp Glu Lys Asp Leu Arg Ser Thr Pro Asn
20 25 30

Leu Cys

<210> 26
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<223> negatively charged amino acid

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<220>
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1 5 10 15

Xaa Gln Leu Leu Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa

<210> 27
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<223> hydrophobic amino acid

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<223> hydrophobic amino acid

<400> 27
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Xaa Glu Xaa His Xaa Ile Leu
1 5 10 15

His Xaa Leu Leu Gln Xaa Xaa Xaa Ser Pro Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa

<210> 28
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<223> negatively charged amino acid

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<222> (33)
<223> hydrophobic amino acid

<400> 28
Glu Xaa Xaa Xaa Xaa Lys Lys Lys Glu Xaa Xaa Xaa Xaa Xaa Leu Leu
1 5 10 15

Arg Tyr Leu Leu Asp Xaa Asp Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa

<210> 29
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<213> Homo sapiens

<400> 29

Thr Ser Leu Lys Glu Lys His Lys Leu Leu Arg Tyr Leu Leu Gln Asp
1 5 10 15

Ser Ser

<210> 30
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<223> Thr --> Arg (T281R)

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<222> (8)
<223> Val --> Arg (V284R)

<220>
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<222> (9)
<223> Asp --> Ala (D285A)

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<223> Lys --> Ala (K288A)

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<223> Ile --> Arg (I302R)

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<222> (30)
<223> Lys --> Ala (K306A)

<400> 30
Thr Pro Ala Ile Thr Arg Val Val Asp Phe Ala Lys Lys Leu Pro Met
1 5 10 15

Phe Cys Glu Leu Pro Cys Glu Asp Gln Ile Ile Leu Leu Lys Gly Cys
20 25 30

Cys

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<222> (7)
<223> Leu --> Arg (L456R)

<220>
<221> MUTAGEN
<222> (8)
<223> Glu --> Lys (E457K)

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Leu Phe Pro Pro Leu Phe Leu Glu Val Phe Glu Asp
1 5 10

<210> 32
<211> 33
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<400> 32
Thr Pro Ala Ile Thr Arg Val Val Asp Phe Ala Lys Lys Leu Pro Met
1 5 10 15

Phe Ser Glu Leu Pro Cys Glu Asp Gln Ile Ile Leu Leu Lys Gly Cys
20 25 30

Cys

<210> 33
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<400> 33
Leu Phe Pro Pro Leu Phe Leu Glu Val Phe Glu Asp
1 5 10

<210> 34
<211> 33
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Thr Lys Cys Ile Ile Lys Ile Val Glu Phe Ala Lys Arg Leu Pro Gly
1 5 10 15

Phe Thr Gly Leu Ser Ile Ala Asp Gln Ile Thr Leu Leu Lys Ala Ala
20 25 30

Cys

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Leu Phe Pro Pro Leu Phe Leu Glu Val Phe Glu Asp
1 5 10

<210> 36
<211> 33
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Asp Lys Gln Leu Phe Thr Leu Val Glu Trp Ala Lys Arg Ile Pro His
1 5 10 15

Phe Ser Glu Leu Pro Leu Asp Asp Gln Val Ile Leu Leu Lys Ala Gly
20 25 30

Trp

<210> 37
<211> 12
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<400> 37
Pro Ile Asp Thr Phe Leu Met Glu Met Leu Glu Ala
1 5 10

<210> 38
<211> 33
<212> PRT
<213> Homo sapiens

<400> 38
Val Glu Ala Val Gln Glu Ile Thr Glu Tyr Ala Lys Asn Ile Pro Gly
1 5 10 15

Phe Ile Asn Leu Asp Leu Asn Asp Gln Val Thr Leu Leu Lys Tyr Gly
20 25 30

Val

<210> 39
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<400> 39
Ser Leu His Pro Leu Leu Gln Glu Ile Tyr Lys Asp
1 5 10

<210> 40
<211> 33

<212> PRT
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<400> 40
Ser Tyr Ser Ile Gln Lys Val Ile Gly Phe Ala Lys Met Ile Pro Gly
1 5 10 15

Phe Arg Asp Leu Thr Ser Glu Asp Gln Ile Val Leu Leu Lys Ser Ser
20 25 30

Ala

<210> 41
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<400> 41
Lys Leu Thr Pro Leu Val Leu Glu Val Phe Gly Asn
1 5 10

<210> 42
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<223> Val __> Arg (V376R)

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1 5 10 15

Phe Val Asp Leu Thr Leu His Asp Gln Val His Leu Leu Glu Cys Ala
20 25 30

Trp

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<223> Glu --> Lys (E542K)

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Pro Leu Tyr Asp Leu Leu Leu Glu Met Leu Asp Ala
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<211> 33
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<213> Homo sapiens

<400> 44
Gly Arg Gln Val Ile Ala Ala Val Lys Trp Ala Lys Ala Ile Pro Gly
1 5 10 15

Phe Arg Asn Leu His Leu Asp Asp Gln Met Thr Leu Leu Gln Tyr Ser
20 25 30

Trp

<210> 45
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<400> 45
Glu Phe Pro Glu Met Leu Ala Glu Ile Ile Thr Asn
1 5 10

<210> 46
<211> 33
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<400> 46
Glu Arg Gln Leu Leu Ser Val Val Lys Trp Ser Lys Ser Leu Pro Gly
1 5 10 15

Phe Arg Asn Leu His Ile Asp Asp Gln Ile Thr Leu Ile Gln Tyr Ser
20 25 30

Trp

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Glu Phe Pro Glu Met Met Ser Glu Val Ile Ala Ala
1 5 10

<210> 48
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<400> 48
Gly Lys Gln Met Ile Gln Val Val Lys Trp Ala Lys Val Leu Pro Gly
1 5 10 15

Phe Lys Asn Leu Pro Leu Glu Asp Gln Ile Thr Leu Ile Gln Tyr Ser
20 25 30

Trp

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<400> 49
Glu Phe Pro Ala Met Leu Val Glu Ile Ile Ser Asp
1 5 10

<210> 50
<211> 33
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<400> 50
Glu Arg Gln Leu Val His Val Val Lys Trp Ala Lys Ala Leu Pro Gly
1 5 10 15

Phe Arg Asn Leu His Val Asp Asp Gln Met Ala Val Ile Gln Tyr Ser
20 25 30

Trp

<210> 51
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<400> 51
Asp Phe Pro Glu Met Met Ala Glu Ile Ile Ser Val
1 5 10